### **REVISED VERSION**

## (19) World Intellectual Property Organization International Bureau





## (43) International Publication Date 7 July 2005 (07.07.2005)

#### **PCT**

# (10) International Publication Number WO 2005/062355 A1

- (51) International Patent Classification  $^7$ : H01L 27/00 // 27/02
- (21) International Application Number:

PCT/SE2003/002068

(22) International Filing Date:

23 December 2003 (23.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

- (71) Applicant (for all designated States except US): TELE-FONAKTIEBOLAGET LM ERICSSON (publ) [SE/SE]; S-164 83 Stockholm (SE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): GEVORGIAN, Spartak [AM/SE]; Adler Salvius gata 15, S-411 11 Göteborg (SE). LEWIN, Thomas [SE/SE]; Landstormsvägen 3150, S-439 94 Onsala (SE). ZIRATH, Herbert [SE/SE]; Ö. Brovaktaregatan 48, S-431 36 Mölndal (SE). MOTLAGH, Bahar [SE/SE]; Pennygången 13, S-414 82 Göteborg (SE).
- (74) Agents: BERGENTALL, Annika et al.; Cegumark AB, P.O. Box 53047, S-400 14 Göteborg (SE).

- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

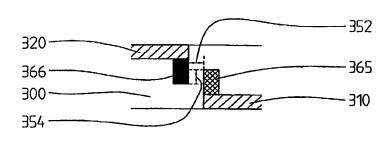
#### Published:

- with international search report
- (88) Date of publication of the revised international search report: 19 January 2006
- (15) Information about Correction:

see PCT Gazette No. 03/2006 of 19 January 2006, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CAPACITOR



(57) Abstract: A method of creating a capacitor in an integrated circuit. According to a basic version of the invention the capacitor uses intensive fringing fields to create a capacitance. This is achieved by creating a capacitor with vertical overlapping conducting electrodes between two planes of the integrated circuit, instead of plates parallel to the planes. A capacitor according to the invention can additionally comprise horizontal, i.e. parallel plates. A capacitor according the method is also disclosed.

